

ABSTRACT OF THE DISCLOSURE

The invention provides novel Ti-plasmid vectors for *Agrobacterium*-mediated plant cell transformation. Plasmids of the invention are constructed with a DNA sequence (i.e., a negative selectable marker or a DNA sequence that inhibits DNA unwinding) flanking the T-DNA bordered gene of interest that reduces or eliminates the occurrence of transformants with vector read-through DNA sequence. The invention also provides methods of plant cell transformation utilizing these novel vectors.